



Amilan™ CM1026

Toray Industries, Inc. - Polyamide 6

General Information

Product Description

Medium viscosity, Heat stabilized

General

Additive	• Heat Stabilizer		
Features	• Chemical Resistant	• High Heat Resistance	
Uses	• Automotive Applications • Automotive Electronics	• Automotive Interior Parts • Furniture	• Safety Equipment
Processing Method	• Injection Molding		
ISO Designation	• >PA6<		

Properties¹

Physical	Dry	Conditioned	Unit	Test Method
Density (73°F)	1.13	--	g/cm ³	ISO 1183
Spiral Flow ²	13.8	--	in	Internal Method
Molding Shrinkage				Internal Method
0.0394 in ³	0.40 to 0.90	--	%	
0.118 in ⁴	0.80 to 1.6	--	%	
Water Absorption ⁵ (24 hr, 73°F)	1.8	--	%	ISO 62
Water Absorption ⁵ Saturation, 73°F	11	--	%	ISO 62
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Stress				ISO 527-2
-40°F	16000	14500	psi	
73°F	11600	5080	psi	
176°F	3630	2900	psi	
Tensile Strain (Yield, 73°F)	1.5	--	%	ISO 527-2
Tensile Strain (Break, 73°F)	> 50	> 50	%	ISO 527-2
Flexural Modulus				ISO 178
-40°F	551000	522000	psi	
73°F	377000	116000	psi	
176°F	102000	43500	psi	
Flexural Stress				ISO 178
-40°F	19600	18100	psi	
73°F	16000	5800	psi	
176°F	5800	3630	psi	
Compressive Stress (73°F)	11600	--	psi	ISO 604
Shear Strength (73°F)	10200	9430	psi	ASTM D732
Taber Abrasion Resistance				ISO 9352
1000 Cycles	3.00 to 4.00	--	mg	
Coefficient of Friction - vs. Metal ⁶	0.15 to 0.20	--		Suzuki Method

